



2010 "VOLUNTEERS WORKING WITH INVASIVES" GRANTS REPORT FORM

Display Report

PROJECT BACKGROUND INFORMATION

Project Title:	Laysan Island Restoration	
Region: Use region number ONLY	1	
Station:	Papahānaumokuākea Marine National Monument	
Contact Person: Name and Phone Number	Cindy Rehkemper 808-792-9487	
Project Description: (Up to 250 words)	The Goal of the Laysan Island Restoration is to restore Laysan to a "Pristine" state which would require minimal monitoring and habitat for Endemic Endangered species as well as Migratory birds. The main focus is removing non-native plant species and conducting post-monitoring and treatment of the sites to prevent reestablishment. Native plant propagation and monitoring are also a major component of the restoration.	
List of Invasives Species Targeted:	Common Name	Scientific Name
	Common Sandbur	<i>Cenchrus echinatus</i>
	Indian Fleabane	<i>Pluchea indica</i>
	Indian dropseed	<i>Sporobolus pyramidatus</i>
	Swinecress	<i>Coronopus didymus</i>
	Bermuda grass	<i>Cynadon dactylon</i>
	Tobacco	<i>Nicotonia tobaccum</i>
	Hairy Horseweed	<i>Conyza bonariensis</i>
Project Status:	InProgress	
Project Completion Date or Estimated Completion Date: (mm/dd/yyyy)		

VOLUNTEER INFORMATION

Volunteer Affiliation: (Check all that apply)	VA_Other

Volunteer Involvement: Describe the type of work the volunteers performed. (Up to 150 words)	Volunteers conduct removal and monitoring on several species, including 3 grasses , 1 herb, and 1 shrub. These teach volunteers a variety of removal techniques including manual, and chemical removals, IPM and EDRR methods for removing invasive species.
Total Number of Volunteers:	4
Total Number of Volunteer Hours:	8320
Partnerships: List both new and existing partnerships utilized in this project. (Up to 150 words).	It cannot be overstated that our work would not be possible without the efforts of dedicated volunteers and the assistance of partner conservation organizations. In 2009 the number of full time volunteers utilized by FWS in Papahanaumokuakea for conservation exceeded the number of paid personnel on staff. The FWS Ecological Services continues to provide assistance with threatened and endangered species, specifically risk assessment and mitigation of human activities. The Hawaii State Department of Land and Natural Resources is involved in consultation for invasive species removal and native plant propagation. The USDA is involved in consulting on invasive species management, identification and native plant propagation. The University of Hawaii, Lyon Arboretum contributes to education and maintenance of ex-situ seed storage facilities. National Marine Fisheries aids Laysan in monitoring the endangered Hawaiian Monk Seal population. The National Center for Genetic Resource Preservation is providing long term seed storage for the endangered plants found in Papahanaumokuakea. And the USGS Biological Resource Division Aids in disease monitoring and prevention.

PROJECT RESULTS

Project Results: Give an overview of the results of the project. Include quantifiable measure of success, such as maps produced, efficacy of control measures, number of sites where invasions were detected early and responded to, number of community contacts, etc. (Up to 250 words).	The Sandbur and Swinecress Projects highlight the success we have had in removals and prevention of re-introduction, with only 1 Sandbur found in 2010 despite over 300 acres of monitoring. The 2010 monitoring year was also the first year recorded with no swinecress, and these successes were due in large part to the assistance provided by dedicated volunteers. The continued removal of Indian Fleabane, Indian dropseed and Bermuda grass are modeled after the same programs used with Sandbur and swinecress, however these programs are just at the early stages and require continued effort to achieve the same success. We currently control just over 50 acres of Indian dropseed and 16 acres of Bermuda grass.
Number of Acres Treated:	70
Number of Acres Inventoried and/or Mapped:	794.822
Number of Acres Restored:	5

BUDGET INFORMATION

Budget: Account for funds in broad categories such as equipment, volunteer stipends, travel, coordinator salary/contract, etc.

Total Grant Amount:	\$ \$20,000
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Breakdown of Expenditures:

Category	Total \$ Spent	% of Total Grant
Equipment / Supplies	1579.86	7.9%
Chemical		
Biocontrol Agents		
Travel	2755.59	13.8%

Volunteer Stipends		
Volunteer Coordinator Salary/Contract	9958.08	49.8%
Restoration Materials		
Other		
TOTAL		

<p>Recommendations: (OPTIONAL) How useful was this program for meeting refuge invasive species objectives and how can it be improved?</p>	<p>Assistance with invasive species work from volunteers and contributions to funding is the only way we can make any real progress in the Laysan Island Restoration. The problem is huge and pressing even for this small land mass at Laysan Island. Laysan is utilized by many breeding migratory birds and endemic endangered birds, as well as 2 endangered plant species. Laysan is an ideal location for eradication because it is isolated and re-introductions are highly unlikely, therefore an eradication will have lasting impacts.</p>
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